

White Ground Road Bridge No. M-138 -- No. 500505

Category **Transportation**
 Agency **Public Works & Transportation**
 Planning Area **Germantown**
 Relocation Impact **None.**

Date Last Modified
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 Required Adequate Public Facility

January 5, 2005
 11-21(05 App)
 NO

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY04	Remain. FY04	Total 6 Years	FY05	FY06	FY07	FY08	FY09	FY10	Beyond 6 Years
Planning, Design and Supervision	214	0	0	214	0	0	35	179	0	0	0
Land	17	0	0	17	0	0	10	7	0	0	0
Site Improvements and Utilities	7	0	0	7	0	0	5	2	0	0	0
Construction	883	0	0	883	0	0	0	883	0	0	0
Other	250	0	0	250	0	250	0	0	0	0	0
Total	1,371	0	0	1,371	0	250	50	1,071	0	0	0

FUNDING SCHEDULE (\$000)

G.O. Bonds	1,371	0	0	1,371	0	250	50	1,071	0	0	0
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ANNUAL OPERATING BUDGET IMPACT (\$000)

DESCRIPTION

This project provides for replacement of the White Ground Road bridge over Buck Lodge Branch and approximately 1000 feet of approach roadway work (500 feet each to the north and south). The replacement bridge will be approximately 50-feet long and 18 feet wide. The approach roadway work is necessary to transition the new bridge into the existing roadway alignment. The bridge and road will be closed to vehicular and pedestrian traffic during construction. Stream bank stabilization and realignment of the stream channel will be required to prevent further stream degradation and erosion of the existing stream banks.

Service Area

Germantown, Boyds and vicinity.

Capacity

Upon completion, the Average Daily Traffic [ADT] on White Ground Road bridge will remain at 650 vehicles per day, and the posted load restriction will be eliminated.

JUSTIFICATION

The existing structure, built around 1950, is a 28-foot long single span steel beam bridge with an asphalt filled corrugated metal deck. The clear roadway width of 15 feet 7 inches supports alternating two-way traffic. The 2001 bridge inspection report revealed that the concrete substructure is in very poor condition. The abutments and wingwalls exhibit deterioration in the form of cracking and spalling concrete. Each abutment has been undermined by the stream current. Concrete aprons and rip-rap have been placed as temporary measures to prevent scour. The steel beams are heavily corroded with section loss in part due to moisture migrating through the joints in the corrugated metal decking. The bridge is structurally deficient and functionally obsolete. It is currently posted for both a Single Unit Vehicle Weight and Combination Unit Vehicle Weight of 34,000 lbs.

Plans and Studies

White Ground Road is designated as an exceptional rustic road in the functional Master Plan for Rustic Roads. This bridge was identified for replacement through the County's biennial bridge inspection program. A review of impacts to pedestrians, bicycles and ADA (Americans with Disabilities Act of 1991) has been performed and addressed by this project. Traffic signals, streetlights, crosswalks, bus stops, ADA ramps, bikeways, and other pertinent issues have been considered in the design of the project to ensure pedestrian safety.

Cost Change

Not applicable.

STATUS

Final Design Stage.

OTHER

The Council approved scope which calls for a narrow bridge width makes the project ineligible for additional Federal Aid for construction of the bridge. In FY06, as required by the State, the Federal Aid received and spent on design of the bridge must be reimbursed to the Maryland Highway Administration.

FISCAL NOTE

The design costs for this project are included in Facility Planning: Bridges.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY05	(\$000)
Initial Cost Estimate		1,371
First Cost Estimate		
Current Scope	FY05	1,371
Last FY's Cost Estimate		1,371
Present Cost Estimate		1,371
Appropriation Request	FY06	250
Supplemental Appropriation Request	FY05	0
Transfer		0
Cumulative Appropriation		0
Expenditures/ Encumbrances		0
Unencumbered Balance		0
Partial Closeout Thru	FY03	0
New Partial Closeout	FY04	0
Total Partial Closeout		0

COORDINATION

Maryland State Highway Administration
 Maryland-National Capital Park and Planning
 Commission
 Maryland Historical Trust
 Maryland Department of Natural Resources
 Maryland Department of the Environment
 U. S. Army Corps of Engineers/U. S. Fish and
 Wildlife Service
 Department of Permitting Services
 PEPCO
 Facility Planning: Bridges

MAP

See Map on Next Page



White Ground Rd

PROJECT SITE
BRIDGE NO. M-138



Schaeffer Rd

White Ground Rd

WHITE GROUND ROAD OVER
BUCKLODGE BRANCH
BRIDGE NO. M-138